

# RIVER RESOURCES FORUM #82

**Tuesday, 26 August 2008, 10:00 – 3:30**  
**Wednesday, 27 August 2008, 8:00 – 12:00**

**American Legion, LaCrescent, MN**

See page 2 for meeting location and lodging information

## Agenda

### **Tuesday, 26 August**

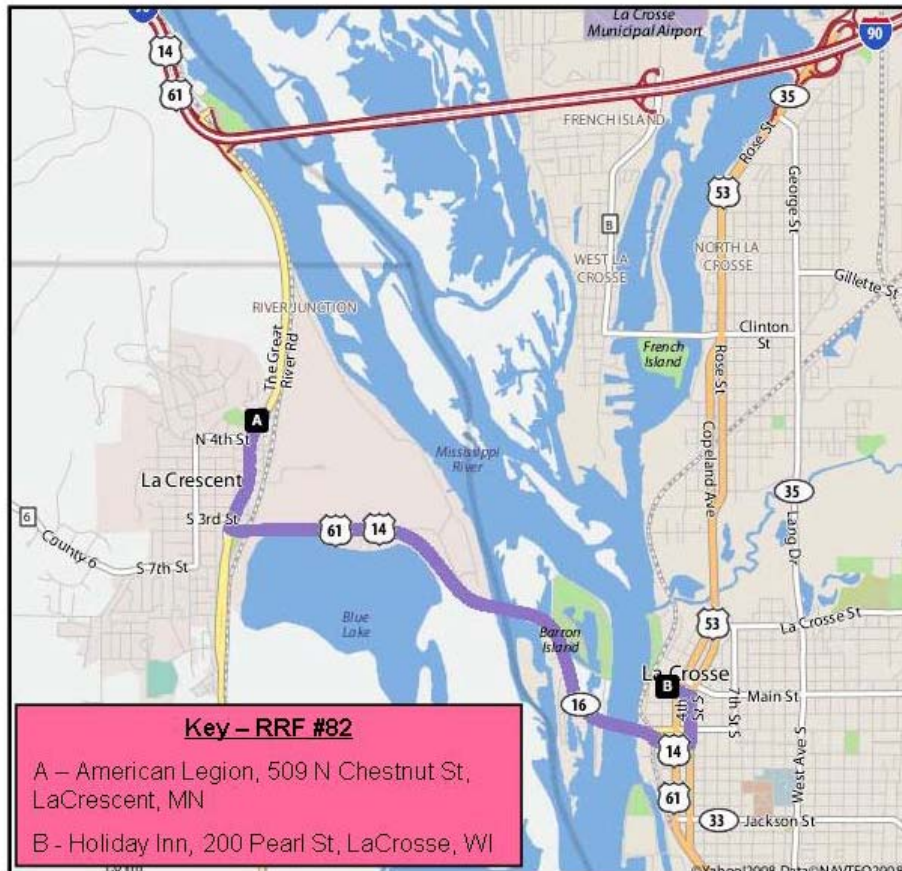
10:00 – 10:15	Introductions, Approve Minutes, Next Meetings & Locations	Tapp/Benjamin
10:15 – 11:00	Agency Activities	All
11:00 – 11:15	Water Level Management Task Force Activities	Schlagenhaft
11:15 – 11:30	Floodplain Restoration Task Force Discussion	Schlagenhaft
11:30 – 12:00	Environmental Management Program	Powell
12:00 – 3:30	Lunch and Tour – Pool 8 Phase III Stage 2	
3:30	<i>Adjourn</i>	

### **Wednesday, 27 August**

8:00 – 8:15	Recap of yesterday	Tapp/Benjamin
8:15 – 9:00	Channel Maintenance Program Activities - Fisher and Corps Island Unloading Update	COE-CH
9:00 – 9:25	Navigation Work Group Activities	Machajewski
9:25 – 10:15	MPCA Dredge Sediment Requirements	Mader
10:15 – 10:30	<i>Break</i>	
10:30 – 11:00	Navigation & Ecosystem Sustainability Program (NESP)	DeZellar
11:00 – 11:30	Fish & Wildlife Work Group Activities	Anderson
11:30 – 12:00	Recreation Work Group Activities	Berg
12:00	<i>Adjourn</i>	

## Meeting Location for RRF #82

American Legion, 509 N Chestnut St, LaCrescent, MN



## Lodging Information

### *Holiday Inn*

200 Pearl St, LaCrosse, WI 54601 608-784-4444

A block of 30 rooms are on hold until **August 20**. You must state you are making reservations under the “River Resource Forum” block. The rate is \$70/nite plus tax. Check in time is 3:00 PM, check out time is 12:00 PM.

# RIVER RESOURCE FORUM #82

26 & 27 August 2008

NAME	ORG	EMAIL	PHONE NO.
Dennis Anderson	COE	<a href="mailto:Dennis.d.anderson@usace.army.mil">Dennis.d.anderson@usace.army.mil</a>	651-290-5272
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14 July 2008

Colonel Robert A. Sinkler  
Commander, Rock Island District  
U.S. Army Corps of Engineers  
Clock Tower Building  
P.O. Box 2004  
Rock Island, IL 61204-2004

Dear Colonel Sinkler:

The River Resources Forum (RRF) held their 81<sup>st</sup> meeting on April 29 and 30, 2008. As you probably know the River Resources Forum (RRF or Forum) has been involved in Upper Mississippi River System (UMRS) management with the St. Paul District of the Corps of Engineers since 1980. Through this Forum State and Federal agencies solve important river issues in an open and collaborative format to balance the needs of commercial navigation with the needs of sustaining the vital river ecosystem. The recent passage of WRDA 2007, and the authorization of the Navigation and Ecosystem Sustainability Program (NESP), has RRF members ecstatic about the future of ecosystem restoration, navigation efficiency improvement, and the role that this group will play in the program.

NESP issues have become major Forum agenda items in recent years. The lack of visible progress due to inadequate funding for the systemic public involvement program is one of many NESP issues that is continually discussed. This concern is further heightened by the information that this already underfunded element would be cut an additional \$50,000 this fiscal year. Steering the priority of the limited funded to other elements of the program which are not as pressing as public involvement does not seem consistent with current program needs. The program needs to reach out to many interest groups about the NESP and the sooner this is done the sooner there will be an effective program that can move forward on the important work of navigation efficiency improvement and ecosystem restoration on the UMRS.

The RRF members sincerely want program success, and it is our firm belief that we need strong public and Congressional support to accomplish this goal. Although we understand the NESP budget is extremely constrained for FY 2008, establishing, refining, and implementing the tools for public involvement and relationships is crucial, especially during the outset of the program. This effort should be a top priority for funding this fiscal year and coming fiscal years.

Now that the program has been authorized, investing in the public relations element in order to improve program identification, the website, newsletter, public interactive meetings, public education, and any other public relation tools, is essential if we are going to get the level of appropriations needed for the program to achieve its goals and objectives. One particular issue of immediate attention in the Forum's opinion is the establishment of a much more recognizable identity for NESP, which may include a name change for the program. A strong identity for the program, which both the public and Congressional interests can embrace, will only increase the chance that the program will be adequately funded for the work needed on the UMRS over the next 50 years.


River Resources Forum Agencies

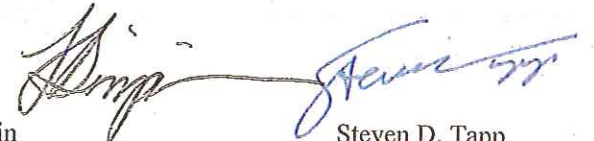
Federal – USACE, USFWS, USCG, EPA, NPS

State – Minnesota DNR, DOT & PCA; Wisconsin DNR & DOT; Iowa DNR & DOT

The Forum is more than willing to work with you on this important issue in hopes of getting the good word out about this new and exciting program. It supports you in this effort to create a strong vigorous program

Sincerely,

  
Gretchen Benjamin  
Co-Chair  
River Resources Forum

  
Steven D. Tapp  
Co-Chair  
River Resources Forum

cc: Charles Spitzack, NESP Regional Project Manager  
Ken Barr, NESP Environmental Technical Manager  
Brigadier General Michael Walsh, Division Commander

River Resources Forum Agencies

Federal – USACE, USFWS, USCG, EPA, NPS

State – Minnesota DNR, DOT & PCA; Wisconsin DNR & DOT; Iowa DNR & DOT

## **DRAFT FOR DISCUSSION - NECC Meeting 8/7/08**

### **Floodplain Coordination Task Force**

#### Purpose:

Restore and manage floodplains for natural resource, flood damage reduction, and economic benefits in conjunction with systemic floodplain restoration efforts across the UMR.

#### Potential Membership:

SWCD, NRCS, agriculture NGO's (Farm Bureau, Corn Growers), landowners, universities, state and federal agriculture and natural resource agencies, environmental NGO's (TNC, DU, Audubon), others?

#### Tasks

- 1) Form committee
- 2) Initial meetings to understand issues and develop common goals (2/year)
  - a. Hydrological changes over time
  - b. Recent hydrologic events, current conditions, future trends
  - c. Flood damages
  - d. Historical and current land cover/land use
  - e. Economic opportunities
  - f. Floodplain restoration options
  - g. Recreational opportunities
- 3) Develop range of opportunities and alternative actions
- 4) Implement small scale experiments and document results (economics, natural resources, alternative energies, etc.)
- 5) Implement larger scale projects and document results
- 6) Summarize and distribute results
- 7) Develop long-term strategy and/or program

#### Timeline

<u>Task</u>	2008	2009	2010	2011	2012 - 2014	2015 - 2023
1	X					
2		X	X			
3				X		
4					X	
5					X	X
6					X	X
7						X

ST. PAUL DISTRICT (MVP) - CORPS OF ENGINEERS											
2008 Dredging Schedule by Equipment										26-Aug-2008	
Scheduled Dredging Jobs											
Pool	Dredge Cut Name		River Mile	Dredging Dates	Depth (ft) & Est. Quantity (cy)		Equip.	Placement Site	Dredging Notice #	Task Order #	Cat.
5A	**	Betsy Slough	731.1 - 731.4	5/29 - 6/5	13	32,005	GZ	5A-731.9-LWP	DN 08-02		
4	**	Grand Encampment	756.5 - 756.8	6/6 - 6/12	12	39,647	GZ	4-756.5-LWT	DN 08-03		I
4	**	Reads Landing	762.4 - 762.9	7/7 - 7/14	12	35,130	GZ	4-762.7-LWT	DN 08-06		I
4	**	Crats Island	758.8 - 759.3	7/15 - 7/20	12	30,997	GZ	4-759.3-LWT	DN 08-01		R
5	**	Fisher Island	745.0 - 745.7	7/21 - 7/28	12	46,336	GZ	5-744.7-LWT	DN 08-04		R
5	**	Lower Zumbro	744.1 - 744.5	7/29 - 8/2	12	21,243	GZ	5-744.7-LWT	DN 08-10		R
9	**	Lansing Upper Light	663.8 - 664.8	8/5 - 8/11	12	51,612	GZ	9-663.5-LWP	DN 08-11		R
		Dredging For MVR		8/11 - ?							
							DQ				
8	**	Root River	692.9 - 693.5	7/18 - 7/24	12	5,483	GM	8-696.1-LWP	DN 08-08		E
7	**	Lock Chamber L&D 7	702.5	8/11/2008	22	400	GM	5A-731.9-LWP	DN 08-15		R
4	**	Lock Chamber L&D 4	752.9	8/20 - 9/3	20	90	GM	4-754.0-LWP	DN 08-16		R
	**	Aux. Lock Chamber L&D4	752.8	8/20 - 9/3	8	3,007	GM	4-754.0-LWP	DN 08-16		R
4	**	Teepeeota Point	757.5	6/23 - 7/28		42,912	CM1	4-752.8-RMP		0001	
8	**	Root River	692.9 - 693.5	7/30 - 8/23	12	26,469	CM1	8-696.1-LWP	DN 08-08	0005	I
8	**	Above Brownsville	690.1	8/23/2008	12	350	CM1	8-696.1-LWP	DN 08-18	0012	E
9	*	Indian Camp Light	665.4 - 665.8	8/25 - 9/4	12	12,753	CM1	9-663.5-LWP	DN 08-14	0009	R
9		Indian Camp Light	665.4 - 665.8	8/25 - 9/4	12	200	CM1	9-665.8-RIP	DN 08-14	0009	
9		Indian Camp Light	665.4 - 665.8	8/25 - 9/4	12	400	CM1	9-664.6-LWP	DN 08-14	0009	
9		Indian Camp Light	665.4 - 665.8	8/25 - 9/4	12	400	CM1	9-664.3-RIT	DN 08-14	0009	
9		Indian Camp Light	665.4 - 665.8	8/25 - 9/4	12	2,000	CM1	9-664.0-RIP	DN 08-14	0009	
7		Lower Dresbach Island	703.0 - 703.8	9/6 - 9/13	12	12,823	CM1	7-706.5-RMT			R
6		LaMoille	706.1 - 706.6	9/14 - 9/20	12	11,225	CM1	6-720.5-RMP			R
3	**	Coulters Island	801.5 - 802.0	7/7 - 7/16	12	19,926	CM2	3-799.2-RMT	DN 08-05	0003	E
3	**	Morgans Coulee	802.6 - 802.9	7/17 - 7/28	12	16,477	CM2	3-799.2-RMT	DN 08-07	0004	R
MN	**	Above Savage RR Bridge	14.3 - 14.7	7/30 - 8/6	11	11,785	CM2	MN-14.1-RMP	DN 08-09	0006	
MN	**	Cargill Slip	12.5 - 13.6	8/6 - 8/11	11	5,018	CM2	MN-14.1-RMP	DN 08-12	0007	I
2	**	St. Paul Small Boat Harbor	839.6	8/12 - 8/21	6	12,032	CM2	2-836.3-RMP	DN 08-13	0008	I
3	*	Diamond Bluff	800.3 - 800.6	8/22 - 9/8	12	22,232	CM2	3-799.2-RMT	DN 08-17	0011	R
4		Beef Slough	754.0 - 754.5	9/9 - 9/26	12	28,652	CM2	4-754.0-LWP		0010	R
4		Teepeeota Point	757.2-757.9	9/29 - 10/16	12	27,686	CM2	4-754.0-LWP			R
							CH				
* Currently Dredging ** Dredging Complete								Cat. Codes:	E = Emergency I = Imminent Closure R = Routine Dredging		
Total quantities scheduled by equipment:											
Government Hydraulic - GOETZ (GZ) =						256,970					
Government Hydraulic - DUBUQUE (DQ) =						0	Scheduled	519,290			
Government Mechanical - HAUSER/WADE (GM) =						8,980	Unscheduled	509,047			
Contract Hydraulic - (CH) =						0	TOTAL	1,028,337			
Contract Mechanical - (CM1) =						109,532					
Contract Mechanical - (CM2) =						143,808					
Contract Mechanical - (CM3) =						0					
Total Scheduled Dredging Quantities =						519,290					
Potential Unscheduled Dredging Jobs											
Pool	Dredge Cut Name		River Mile		Depth & Est. Quantity		Equip.	Placement Site			Cat.
MN		Peterson's Bar	11.8 - 12.4		11	5,191	CM	MN-14.1-RMP			R
SAF		Mpls. Turning Basin	856.8-857.6		12	31,120	CM	U-856.6-RMP			R
SAF		Above Lowry Ave. Bridge	856.4 - 856.8		12	19,303	CM	U-856.6-RMP			R
SAF		Below Lowry Ave. Bridge	856.0 - 856.4		12	7,574	CM	U-856.6-RMP			R
SAF		Above Broadway Ave. Bridge	855.3 - 856.1		12	6,498	CM	U-856.6-RMP			R
SAF		Above Plymouth Ave. Bridge	855.0 - 855.5		12	10,257	CM	U-856.6-RMP			R
1		Above Franklin Ave. Bridge	851.6 - 853.1		12	16,505	CM	1-853.2-LMP			R
1		Below Franklin Ave. Bridge	850.7 - 851.4		12	21,867	CM	1-853.2-LMP			R
1		St. Paul Daymark	848.5 - 848.9		12	10,928	CM	1-853.2-LMP			R
1		Upper Approach to L/D 1	847.7 - 848.4		12	8,783	CM	1-853.2-LMP			R
2		Grey Cloud Slough	827.5 - 828.3		12	8,140	CM	2-827.5-RMT			R
2		Pine Bend Landing	824.3 - 824.6		12	2,596	CM	2-823.8-LMT			R
2		Pine Bend	822.7 - 823.7		12	9,989	CM	2-823.8-LMT			R
2		Boulanger Bend	820.7 - 821.4		12	12,174	GZ	2-821.1-LWT			R
2		Boulanger Bend Lower Light	819.0 - 819.8		12	50,406	GZ	2-821.1-LWT			R
3		Above Coulters	802.2 - 802.4		12	5,443	CM	3-799.2-RMT			R
4		Chippewa	762.6 - 763.8		9	200,000	GZ	4-762.7-LWT			R
5		Upper Zumbro	749.4 - 750.0		12	3,969	CM	5-748.0-RMT			R
5		Mule Bend	748.6 - 749.6		12	8,137	CM	5-748.0-RMT			R
5		West Newton	747.2 - 748.2		12	7,445	CM	5-748.0-RMT			R
5		Below West Newton	746.0 - 746.8		12	4,899	CM	5-748.0-RMT			R
5A		Wilds Bend	730.2 - 730.7		12	12,731	CM	5A-731.9-LWP			R
6		Gravel Point	721.9 - 722.2		12	12,397	CM	6-726.3-RMP			R
6		Below Winona RR Bridge	723.0 - 723.8		12	11,128	CM	6-726.3-RMP			R
6		Blacksmith Slough	719.0 - 719.4		12	11,627	CM	6-720.5-RMP			R
7		Lower Approach L/D 6	714.0 - 714.3		13	4,978	CM	7-714.1-LWP			R
10		McMillan Island	618.8 - 619.0		12	4,962	CM	10-618.7-RIT			R
Total quantity for jobs that have not been scheduled =						509,047					

ST PAUL DISTRICT - CORPS OF ENGINEERS										
2008 CHANNEL MANAGEMENT & PLACEMENT SITE ACTIVITIES SCHEDULE									Updated: 25 August 2008	
Pool(s)	Status	Job Name/Description	Work Type (see Key)	River Mile(s)	Work Dates	Approximate Construction Time	Equip	Cubic Yards Dredged	Rock (Tons)	Comments/Job Notes
<b>Scheduled Channel Management Activities</b>										
2		Is 112 Rock Structure - Relocate notch downstream	SM	827.5R	Aug/Sep 2008		MR			Pending design, OSIT, & MnDNR permit.
2		Sand Berm along Is. 112 (LP2 CMS)	DR	827.5R	2008		CT	8,140		Dredging from Grey Cloud Slough cut - placed along shoreline.
4		Lower Pool 4 CMS	OT							EC-H working on models for LP4 islands.
8		Pool 8 Is. 116 - Dredging Behind Closure Structure	DR	690.2R	July 2008	1 day	MR	200		OSIT held 5/30/07. Pending EA & signed FONSI.
<b>Potential Channel Management Activities</b>										
2		Secondary Channel (LP2 CMS)	EX	826.7R	2009		MR	5,000		Pending Design, MnDNR permits. Work funded via NESP.
2		Notch 31 Wing Dams (LP2 CMS)	SM/WD	NA	2009		MR	11,000		Pending Design, MnDNR permits. Work funded via NESP.
8		Crosby Slough Protection (P8 CMS)	CL/BS	690.3L	2009	1 week	MR		1,000	OSIT held 5/30/07. Design pending.
8		Raise & Extend 3 Wing Dams (P8 CMS)	SM/WD	690.2L	2009	1 week	MR		1,500	OSIT held 5/30/07. Design pending.
9		Mooring Buoy	OT	687.8R	2008	1 week	MR			Modify and move buoy closer to LD 8 (from 678.3R). Pending updated EA.
<b>Scheduled Placement Site Activities</b>										
MN	**	Cargill East River	RE	14.1R	19 May - 02 Jun	2 weeks	MR			Constructed perimeter berm and west access location.
2	**	Southport	OT							OSIT held on 6/3.
4		Crats Island - Bank Stabilization	BS	759.3L	Sep - Oct	2 weeks	CT		3000	RFP sent to 8A contractor with a response date of 9/3. OSIT meeting scheduled prior to construction.
4		Teepeeota Island - Unloading	EX	757.5L	Aug - Nov 08		CT	350,000		Contract awarded to Matteson. Precon scheduled for 9/3 in Winona.
4	**	Teepeeota Island/LD4 Embankment	EX	757.5L	6/23 - 7/28		CT/MR	45,000		Sand placement of berms is completed. Quantity being negotiated with contractor.
4	*	LD 4 Embankment - Rock Groins	BS	752.8	8/25 - 9/9		MR		1040	Install interior rock groins to west berm embankment.
5		West Newton Chute	DR	749.8R	15 - 18 Sep		MR			Dredge access and truck material to site
5	**	Lost Island	RE	744.7L	14-25 Apr	2 weeks	MR			Prepared site for dredging ops.
8	*	Above Brownsville - Unloading	EX	690.4L	2008 - 2009		CT	207,000		Unload material for Pool 8 Ph III Stg 2B contract.
9	**	Lansing Hwy Bridge	RE	663.5L	27-29 June		MR			Prepared site for dredging ops.
<b>Potential Placement Site Activities</b>										
2		Pine Bend	RE	823.8L	2009		MR			Expand to CMMP limits.
2		Lower Boulanger	RE	821.1L	2009		MR			Prepare site for dredging ops and install drop structure.
3		Corps Island	EX	799.2R	2010		CT			Contract to unload dredge material.
4		Red Wing Commercial Harbor	IN	791.6	2010		MR			Relocate placement site according to the cities overall plan.
4		Wabasha Gravel Pit	EX	761.0R	2009		CT			HTRW review and railroad tie removal.
4		Reads Landing	RE	762.7L	2009		MR			Prepare site for dredging ops.
4		Reads Landing - Bank Stabilization	BS	762.7L	2010		CT		2200	OSIT prior to construction.
4		Crats Island	RE	759.3L	2009		MR			Prepare site for dredging ops.
4		Teepeeota Island - Bank Stabilization	BS	757.5L	2009		MR		3500	OSIT prior to construction.
4		Grand Encampment	RE	756.5L	2009		MR			Prepare site for dredging ops and install drop structure.
5		Fisher Island - Unloading	EX	745.8R	2009		CT	750,000		Contract to unload dredge material.
5		Lost Island	RE	744.7L	2009	2 weeks	MR			Prepare site for dredging ops.
5A		Fountain City	RE	731.9L	2009		GZ			Prepare site for dredging ops.
8		Brownsville	RE	688.7R	2009	2 days	MR			Reshape berm and relocate dredge pipe.
8		Brownsville - kiosk	IN	688.7R	2009		CH			Install Kiosk.
9		Lansing Hwy Bridge - Landscaping	LS	663.5L	2009		NR			Landscape berm
10		Mississippi Gardens	RE	642.4L	2009		MR			Prepare site for dredging ops. CH needs to coordinate with FWS.
10		Buck Creek - kiosk	IN	618.0R	2009		CH			Install Kiosk. Install berm signs.
10		McMillan	RE	618.7L	2009		MR			Prepare site for dredging ops.
<b>Other Scheduled M&amp;R Work</b>										
<div> <div> * Currently operating at this job.  ** Work has been completed.  WS Work Suspended  CMS Channel Management Study  WC Work Canceled </div> <div> BS Bank Stabilization  CL Closure  DR Dredging  DS Drop Structure  EX Excavation  FB Fabrication  IN Installation  IS Island  LS Landscaping  RE Reshaping  WD Wing Dam  SM Structure Modification  OT Other (see Comments) </div> <div> CT Contractor (Mechanical, Hydraulic, Other)  PO Purchase Order  CH COE Channels &amp; Harbors Unit  NR COE Natural Resource Project Office  MR COE Maintenance &amp; Repair Unit  GZ COE Dredge Goetz  DQ COE Dredge Dubuque  IaDNR Iowa Department of Natural Resources  MnDNR Minnesota Department of Natural Resources  WIDNR Wisconsin Department of Natural Resources  <i>It</i> Italicized numbers are estimates. </div> </div>										

Awaiting M&R cost estimate.

## **Key Characteristics of the River Resources Forum (RRF)**

### **Introduction**

This document outlines the characteristics of the St. Paul District's River Resources Forum (RRF), including the purpose, membership, scope, operation and decision-making process. This information is important as the institutional arrangements for management of the UMRS are refined and implemented. Many of these characteristics and protocols also apply to the RRF Work Groups, i.e. the Fish and Wildlife Work Group (FWWG), the Navigation Work Group, the Recreation Work Group, and the Water Level Management Task Force (WLMTF).

The information in this document was taken from several documents produced by the RRF or its membership, including:

- River Resources Forum Partnering Agreement, September 19, 1991
- River Resources Forum Integration with the Navigation and Ecosystem Sustainability Program, March 2008
- DRAFT FOR DISCUSSION – District River Teams and the implementation of the Navigation and Ecosystem Sustainability Program, July 2008

### **Purpose**

The RRF Partnering Agreement states: “We, the partners involved in management of the Mississippi River, recognize the multiple uses and benefits provided by this diverse ecosystem and are committed to work together as a trusting, cooperative team to manage the River from a resource-balanced approach in the best interest of the public.

The Partnering Agreement contains the following goals:

1. We will actively work to foster confidence and mutual trust by discussing issues openly and respecting differences if they should arise.
2. We will work jointly towards our objective of achieving consensus support for agencies' programs, projects, activities, and studies.
3. We will promote effective and timely interagency and public communication so that realistic expectations are established and activities are conducted with full awareness.
4. We will facilitate internal coordination so that activities are expedited through the administrative process.
5. We will be guided by mutually agreed-upon operating procedures.

These goals have been summarized as follows:

- To provide a mechanism for all Federal and State agencies with management or regulatory responsibilities along the Mississippi River and tributaries in the St Paul District area to facilitate the coordination of their programs and activities; and
- To provide an opportunity for other interested parties to express their concerns and views to the agencies

More specific purposes of the RRF include:

- Achieve environmentally sound methods of maintaining the 9-foot channel navigation channel.
- Implement the Environmental Management Program (EMP) and other environmental goals that may be achieved using funds separate from EMP.
- Resolve issues, and plan and implement projects at the regional level.
- Through the RRF work groups, provide scientific and management expertise for project/reach planning and project selection, planning and implementation.
- Provide a forum for public and private interests related to river management.
- Elevate partnership duties as issues are resolved and do not need direct attention of the RRF.

### **Membership**

The following entities were signatories to the 1991 Partnering Agreement. The voting members are indicated with an asterisk (\*).

- U.S. Army Corps of Engineers, St. Paul District \*
- U.S. Fish and Wildlife Service \*
- U.S. Environmental Protection Agency \*
- U.S. Coast Guard \*
- Soil Conservation Service (now the Natural Resources Conservation Service, or NRCS) \*
- National Park Service \*
- State of Iowa Department of Natural Resources (DNR) \* and Department of Transportation (DOT)
- State of Minnesota DNR \*, DOT, and Pollution Control Agency
- State of Wisconsin DNR \* and DOT

Navigation and environmental non-government organizations (NGOs) participate in RRF meetings and business, but are not voting members at this time.

### **Scope**

The scope of activities conducted by the RRF is broad, and changes as new programs and issues emerge. To get a sense of the scope of the RRF, one can look at past activities and

accomplishments, as well as potential future activities in the new institutional arrangements contemplated under NESP. Both of these areas help define the scope of the RRF, and are summarized below:

### **Past Accomplishments**

- Completed and implemented individual dredge material management Pool Plans completed by 1986
- Developed and implemented Beach Plans for Pools 7-10 by 1987
- Selected and prioritized habitat projects for the Environmental Management Program (EMP) beginning in 1988 and continued to update the list since that time, with 25 projects implemented to date.
- Completed the Channel Maintenance Management Plan in 1996, which served to streamline all routine Mississippi River dredging and disposal in the St. Paul District.
- Planned and implemented large pool-scale drawdowns to reinvigorate aquatic emergent vegetation.
- Developed and completed the Environmental Pool Plans describing a desired future condition for each navigation pool, September 2004.
- Designed and built islands out of dredge material for environmental benefit.
- Identified and published the ten critical areas where the erosion of railroad tracks adjacent to the commercial navigation channel has the potential of causing serious problems for derailment and spills.
- Determined the best location for mooring cells above and below the locks and dams in the St. Paul District.
- Conducted and evaluated data from recreational boating studies using aerial photography along much of the St. Paul District corridor of the Mississippi River.
- Provided a forum for public and private interests related to river management

### **Potential Future Activities within NESP Institutional Arrangements**

- Provide an effective coordination mechanism for all environmental, recreational and navigation project in the St. Paul District, no matter the funding source.
- Provide an effective coordination mechanism for all channel maintenance activities in the St. Paul District .
- Provide the foundation for NESP coordination at the regional level.
- Provide an effective coordination mechanism for Project Delivery Teams (PDTs) for NESP.
- Provide input to the River Advisory Panel (RAP) to help determine systemic ranking of project/reach ecosystem planning and restoration projects and measures.
- Have the opportunity to review and comment on Science Panel recommendations and findings.
- Attend and explain regional perspectives on NESP related issues and provide information back to the district river teams to complete the coordination.

- Forward important issues/recommendations to be placed on the River Advisory Panel agenda for discussion.
- Address the RAP upon request
- Be actively involved in navigational and ecosystem issues in the St. Paul District
- Share information on any navigation efficiency, reliability, and safety work that is done in the districts.
- Be involved in all navigation and ecosystem issues in the three districts.
- Be kept informed on River Advisory Panel actions and discussions.
- Facilitate any internal responsibilities for NEPA, FWCA or ESA, but the district river team does not replace this responsibility.

### **Operation**

The RRF continues to conduct business in the standard operating protocol that has been established and successfully implemented over the past 27 years. This protocol includes the following elements:

- Meetings are held three times a year.
- Meeting minutes and agenda are sent out before the meeting.
- Any issue which needs RRF endorsement will be sent out at least 30 days in advance for inter-agency consideration and coordination.
- All decisions of the RRF are recorded in the meeting minutes.
- The Fish and Wildlife, Recreation and Navigation Work Groups, and the Water Level Management Task Force will consist of appointed river resources managers from the Federal and State agencies.
- The Corps co-chairs the meetings with a state representative.
- The Corps will provide support staff to document meeting minutes and agendas

### **Other general operating principles of the RRF include:**

- The RRF will continue to be characterized by open and honest discussions, coupled with trust and courtesy, with the goal of achieving and implementing consensus decisions for river management.
- Recommendations by the RRF will be fully considered by the all UMRS recognized partnerships including the potential new RAP.
- The RRF will respond to requests made by all UMRS recognized partnerships in a timely and appropriate manner.
- The RRF will share information and work toward common understanding regarding ecosystem restoration achievements and lessons learned.
- NESF activities will be added to the RRF agenda, but the RRF continue to conduct business in the manner that has been established over the past years.

### **Decision-making**

- The RRF will seek consensus on river issues but, when necessary, issues may be settled by the voting members.
- RRF Work Groups develop solutions to river management issues, and bring them to the RRF for endorsement and implementation.
- The RRF expects that its input will be an important factor in the decision-making process for all recognized UMRS partnerships including the potential new RAP

Date: 20 August 2008

Subject: **Draft** SOW for an Assessment of Recreational Impacts on Bank Erosion for the Upper Mississippi River

From Jon Hendrickson, Dan Wilcox (St. Paul District Corps of Engineers)

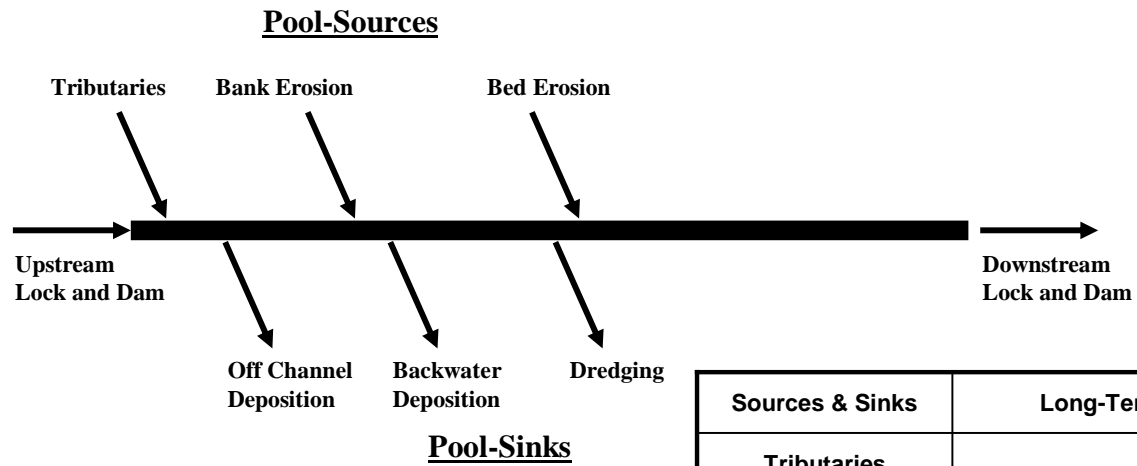
The purpose of this study is to

1. Conduct a GIS modeling exercise using existing data sets, shapefiles and equations to determine and map the spatial extent and magnitude of recreational boating shoreline impacts in comparison to those attributable to commercial navigation and wind-generated impacts.
2. Quantify the amount of sediment eroded and resuspended by recreational boating and compare the volume to the average annual O&M dredging quantities for each Pool or appropriate reach as part of the GIS modeling exercise. Estimate the amount of additional O&M dredging attributable to recreational boating induced shoreline erosion.

The following information is available

- Cross sections in Upper Pool 4 (Johnson, 200?) which were taken in 199?, 200?, and 200?. These indicated significant quantities of bank erosion.
- Assessment of Upper Mississippi River erosion sites (UMRS Navigation Study Report ???? , 19??)
- Pools 1 through 10 Sediment Budget (Hendrickson, 2003)
- Aerial photography: Many years available. 2003 FSA aerial photos, Historic aerial photos of the study reach
- HEC-RAS models for navigation pools developed for the 2003 flow frequency study. These models can be used to determine sediment transport capacity in study reaches.
- Lateral Hydraulic Connectivity (LHC) data for pools 1 through 10.
- Water surface elevation variation between the 5% duration and 75% duration flow events for pools 1 through 10
- Flood profiles for the 2, 5, 10, 20, 50, 100, and 500 year floods.
- Reports
  - Hydraulic Effects of Recreation Boat Traffic on the Upper Mississippi River System (Environmental Report 43, Knight, S.K. and T.M. Parchure, 2004)
  - Bhowmik reports
  - GREAT reports (Pool 9)

**Mississippi River Bed Material (Sand) Budget  
Conceptual Model, Pool Scale**



Sources & Sinks	Long-Term Trend
Tributaries	
Bank Erosion	
Bed Erosion	
Dredging	
Backwater Deposition	
Channel Fringe Deposition	

Table. Tasks, Work Description, Time, and Cost associated with Assessment of Recreational Impacts on Bank Erosion for the Upper Mississippi River

Task No.	Task	Work Description	Time, Cost
1	GIS Data Base	<p>Create an arcmap project that includes</p> <ul style="list-style-type: none"> <li>Recent &amp; Historic Aerial Photos</li> <li>Digitized Bank lines for 19??, 19?? and 200? Conditions</li> <li>Wave characteristics from recreational and commercial traffic, and wind using GIS data from the UMR-IWW Navigation Study, and the recent wind-fetch model.</li> <li>Sample and Photo locations from field recon</li> <li>River Miles</li> <li>Geomorphic Features: ??????</li> </ul>	Time and cost are included in the following tasks
2	<p>Hydraulic/Geomorphology assessment: ID reaches within navigation pools with similar characteristics based on:</p> <ul style="list-style-type: none"> <li>Water surface elevation variation between the 5% duration and 75% duration events.</li> <li>Recreational boat traffic intensity</li> <li>Wave characteristics due to recreational and commercial traffic, and wind</li> <li>Bank erosion assessment from UMR-IWW bank erosion study</li> <li>Channel maintenance volumes</li> <li>hydraulic slope</li> <li>Connectivity</li> <li>break in channel continuity or grade control due to infrastructure</li> <li>historic main channel width changes</li> <li>bank heights</li> </ul> <p>Select study reaches. These will probably be pool scale, but the difference between sub-reaches of each pool will have to be quantified.</p>	<p>Initial work is performed in office using existing water surface profiles, recreational boating data, connectivity data, bank erosion data from the UMR-IWW erosion study.</p> <p>This is followed by field reconnaissance of the study reach to</p> <ul style="list-style-type: none"> <li>verify initial reach delineation</li> <li>identify bank and bed materials</li> <li>determine bank height.</li> <li>Estimate fate of eroded bank sediments</li> </ul> <p>Stops, photos, and samples obtained during the reconnaissance should be geo-referenced in a GIS data base.</p> <p>Study reaches should be selected so that different categories of hydraulic conditions and recreational traffic are analyzed</p> <p>Hydraulic categories should probably be based on water level variation, though other hydraulic factors could be considered also. Determining the difference in water surface elevation between the 5-percent and the 75-percent duration events would be the starting point. In category 1, the water surface</p>	<p>Reach Identification using existing data Time: 10 days Cost: \$12000</p> <p>Field Reconnaissance Time: 1 trip x 5 days x 2 people = 10 days Cost: \$12000</p> <p>Study reach selection: Time: 5 days Cost: \$6000</p> <p><b>Total Cost = \$30000</b></p>

		<p>difference would be less than 1 foot (lower pool). Category 2 difference would be 1 to 3 feet (mid pool). Category 3 differences would be 3 to 5 feet (upper pool). For each category, high, moderate, and low recreation traffic reaches would be chosen.</p> <p>For example, upper pool 4 is a reach with high water surface difference (3 to 5 feet) and with high recreational boat traffic. On the other hand, upper pool 9 is also a reach with high water surface difference (3 to 5 feet) but with low rec traffic.</p>	
3	Bed & Banks Sediment Yield Analysis	<p>Determine river bank migration in selected study reaches based on aerial photo analysis of river bank position for three time periods (196?, 199?, 200? FSA)</p> <p>Estimate sediment yield from river banks from bank migration analysis and bank heights.</p> <p>Assess the magnitude of erosive forces in study reaches: Generate maps and tables of recreational boat-generated wave action, commercial tow-generated wave action, wind-generated wave action, and river currents in study reaches.</p> <p>Estimate fraction of sediment yield from various types of wave action and from river currents in each study reach. Estimate fate of eroded sediments. For instance, does eroded sediment enter navigation channel where it may have to be dredged or is it transported to backwater areas via secondary channels.</p>	<p>River bank migration Time: 10 days Cost: \$12000</p> <p>Magnitude of erosive forces Time: 20 days Cost: \$24000</p> <p>Sediment Yield Fractions Time: 5 days Cost: \$6000</p> <p><b>Total = \$42000</b></p> <p>Note: This assumes that the magnitude of erosive forces can be readily determined from previous navigation study work</p>
5	Sediment Capacity Analysis	<p>Compare sediment erosion from banks to existing sediment budget numbers for study reaches.</p> <p>Determine if channel sediment transport capacity (use HEC-</p>	<p>Time: 10 days <b>Total Cost \$12000</b></p>

		RAS) matches sediment yields from upstream sources, bed and banks.	
<b>6</b>	Estimate the effects of recreational boat traffic on channel dredging quantities.	Plot sediment capacity versus sediment yield (with and without bank erosion estimates) to determine residual sediment in system. Estimate source of residual sediment based on analysis of erosive forces	Time: 10 days Total Cost \$12000
<b>7</b>	Report	Report	Time: 10 days Total Cost \$12000
			Total Cost = \$108,000